Plazmic Theme Builder for BlackBerry Smartphones
Version: 4.7

User Guide

plazmic™

Contents

Plazmic Theme Builder overview   1

The Plazmic® Theme Builder enables designers and content developers to customize various elements on the BlackBerry® device UI. With the Plazmic Theme Builder, you can customize Home screen icons, banners, indicators, backgrounds, fonts and colors for lists and menus, and more. Catalogs help to organize project resources such as images and colors for later use, and include sample resources for reuse. You can download and install the BlackBerry Smartphone Simulator to test new themes on the desktop, before you distribute them to the BlackBerry device.

The Plazmic Theme Builder workspace includes a view area to see how your theme appears on the selected BlackBerry device, buttons for designing each of the customizable elements and areas (such as the Home screen, banners, and global UI elements), and tools for arranging and resizing elements on the BlackBerry device screen.

Configuring the Plazmic Theme Builder

Specify startup preferences

By default, when you start the Plazmic® Theme Builder, the Create New Project dialog box displays. However, if you typically open an existing theme, you might want to specify that the Open File dialog box displays instead.

1. Click **Edit** --> **Preferences**.
2. On the **Preferences** tab, specify one of the following actions:

Option	Description
Create New Document	Displays the **Create New Theme** dialog box, so you can choose the device type and theme type for a new theme project.
Open File Dialog	Displays the **Open** dialog box so you can select an existing project.
Do Nothing	Displays no dialog box. You must click the **File** menu to create a new theme project or modify an existing one.

Specify summary information for a theme

You can add descriptive information about your theme. This information appears when the user views the theme's properties on their BlackBerry® device.

1. Click **Edit** --> **Preferences**.
2. Click the **Metadata** tab.
3. Complete the fields of the **Metadata** tab as necessary:

Option	Description
Vendor	Identifies the creator and owner of the theme.
Copyright	Specifies any copyright information you want to draw attention to.
Version	Specifies versioning data for the theme. This field supports only numeric characters and decimal points. Alphabetic characters and symbols are invalid. The version must be a combination of numeric characters and at least one decimal point, for example, 1.12 or 4.2.6.
Description	Specifies a brief description for the theme. You should limit the description to one or two sentences.

Specify application preferences

Set application preferences to specify which applications to use as the default for working with selected file types.

1. Click **Edit** --> **Preferences**.
2. Click the **Applications** tab.
3. Click **Browse** and select the application to use for each file type.

Option	Description
SVG	Specifies the application to use with .svg files. You can compile .svg content to make it available for use in the BlackBerry® Browser. You can work with .svg files using the Plazmic® Composer.
Images	Specifies the application to use for working with image files.

Specify transparency preferences

Change transparency preferences to make the transparency pattern easier to see on different backgrounds. For example, you can use a lighter transparency pattern to indicate transparency over a darker background.

1. Click **Edit Preferences**.
2. Click the **Transparency** tab.
3. Click the drop-down list and select a shade for the transparency.
4. Click each color box and use the Color Picker to select a color for the transparency.

Change the faceplate

The preview pane shows how the BlackBerry® device screen will look with your theme design. By default, the Plazmic® Theme Builder also displays the BlackBerry device face plate in the preview pane. Viewing the face plate is useful, as the face plate coloring affects the perception of the colors you use in your theme.

1. To change the face plate, on the **View** menu, click **Change Plastics**.
2. Select the face plate you want to display.

Hide the faceplate

If you choose, you can change or hide the BlackBerry® device face plate that is displayed in the preview pane. The Change Plastics dialog box displays face plates of BlackBerry devices that match the screen dimensions of the theme you are working on.

To hide or show the BlackBerry device face plate, on the **View** menu, click **Show Plastics**.

Show or hide the inspector

On the Window menu, click **Inspector**.

Show or hide the catalog

On the **Window** menu, click **Catalog**.

Show or hide the alignment tools

On the **Window** menu, click **Alignment**.

Using the workspace

The project window

You view your Plazmic® Theme Builder projects in the preview pane. Each project opens in a separate pane. You can customize different theme elements in the Inspector. The catalog stores images and colors for use in your themes. You can drag images and colors between the Inspector and the catalog. The alignment tool allows you to change the alignment of objects.
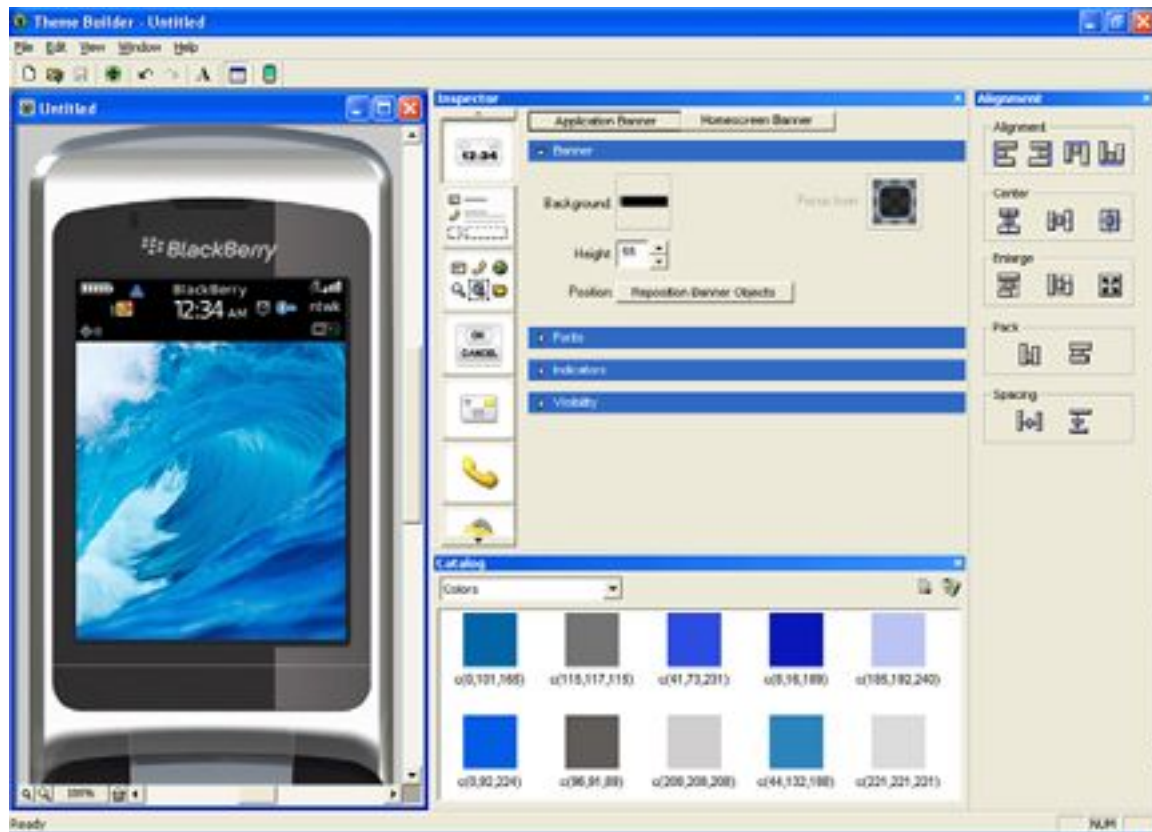
The Plazmic Theme Builder Inspector

You can use the Plazmic® Theme Builder Inspector to customize the components of the BlackBerry® UI. You can click the appropriate button at the left of the Inspector pane to display the Inspector for each component. The Home screen for each theme type is unique, and is the primary difference between the theme types.

Inspector	Button	Description
Banner		Use the Banner Inspector to change the color scheme and the background image that appears in the banner across the top of many BlackBerry Applications. You can also customize the Home screen banner using the Banner Inspector.
Zen Home screen		Use the Zen Home Screen Inspector to specify the five applications to display on the Home screen, and the images to use for other Home screen elements.
Today Home screen		Use the Today Home Screen Inspector to specify the applications to display on the Home screen, and the images to use for other Home screen elements.
Custom Home screen		Use the Custom Home Screen Inspector to specify the applications to display on the Home screen , their position on the home screen, and the images to use for other Home screen elements and navigation.
Application Icons		Use the Application Icons Inspector to specify images to use and to define the application hierarchy of the Icon Home screen and the Application menu screen for the Zen, Today, and Custom Home screens.

Inspector	Button	Description
Controls		Use the Controls Inspector to change the appearance of BlackBerry Application controls, such as dialog boxes, buttons, menus, title bars, and lists.
Messages		Use the Messages Inspector to change the appearance of the message list.
Phone		Use the Phone Inspector to customize the phone screens, including the Phone Hotlist screen, the Active Call screen, and the Incoming Call screen.
Lock screen		Use the Lock Screen Inspector to specify the fonts and the static image to use as the lock screen background for the BlackBerry device.
Shortcut bar		Use the Shortcut Bar Inspector to specify imags and backgrounds for the shortcut bar on the BlackBerry® Storm™ 9500 smartphone.
Global items		Use the Global Items Inspector to specify images and colors for items that appear on the screen across all applications, such as the transmission indicators and progress bars.
External screen		Use the External Screen Inspector to customize the Homescreen, Phone, and Notification display on an external screen for a flip device.

Creating and changing theme projects

<div style="text-align: right">2</div>

You create your new theme using the selected theme type as your starting point. You can change from one theme type to another at any time, however, any customizations you made to the Home screen will no longer apply in the new theme type. Changes made elsewhere in the theme are preserved.

You must create a theme for the specific screen dimensions of a BlackBerry® device. The Plazmic® Theme Builder scales screen elements to fit the specified screen dimensions.

When you export, you choose the specific device to export the theme for. You cannot create a theme and export it for use on BlackBerry devices that have different screen dimensions.

For example, if you design a theme for a BlackBerry® Pearl™ 8100 Series smartphone (with screen dimensions of 240x260 pixels), users cannot download that theme to a BlackBerry® Curve™ 8300 Series smartphone (with screen dimensions of 320x240 pixels); they can, however, download that theme to a BlackBerry® 7100 Series smartphone, since it has the same screen dimensions (240x260 pixels) as the BlackBerry® Pearl™ smartphone.

You can save a theme project at any time and reopen it later to continue designing your theme.

Theme types

When you create a new theme project, you must first select a theme type. The theme type is a template for the layout of the Home screen. The Plazmic® Theme Builder includes the following theme types:

- Zen theme: This Home screen displays five application icons plus an icon that links to the application grid screen, from which users can access all the applications on the BlackBerry® device.
- Today theme: This Home screen displays three application icons plus an icon that links to the application grid screen, from which users can access all the applications on the BlackBerry device. By default, the message application, calendar application, and call log application icons display on this Home screen. The most recent entries are below each application icon.
- Custom theme: This Home screen displays a combination of Zen theme items (application icon) and Today theme items (application icon and the most recent entries). You can position these items anywhere on the screen. This screen includes a link to the application grid screen, from which users can access all the applications on the BlackBerry device.
- Icon theme: This Home screen displays application icons arranged in a grid layout. You can organize the application icons into a hierarchy of folders. This screen is also the secondary application grid screen for the Zen, Today, and Custom theme types.

Create a theme project

1. On the **File** menu, click **New**.
2. In the **Create New Theme** dialog box, in the **Name** field, type a name for your new theme project.

3. In the **Device** drop-down list, click the target device:
   - 240x260: BlackBerry® 7100 Series and BlackBerry® Pearl™ smartphones
   - 240x320: BlackBerry® Pearl™ 8220 smartphones
   - 320x240: BlackBerry® 8700 Series, BlackBerry® 8800 Series, and BlackBerry® Curve™ smartphones
   - 480x360: BlackBerry® Curve™ 8900 smartphones
   - 480x320: BlackBerry® Bold™ 9000 smartphones
   - 360x480: BlackBerry® Storm™ 9500 smartphones
4. In the **Type** drop-down list, click the theme template you want to use as the basis for your new theme.
5. Click **Create**.

Open a theme project

1. Click **File** --> **Open**, and navigate to the theme project (.thm) file.
2. Click **Open**.

Update a theme project created with an earlier version of the Plazmic Theme Builder

Because of changes in the theme reader, themes created using earlier versions of Plazmic® Theme Builder are not compatible with later versions of the BlackBerry® Device Software. However, instead of having to recreate these themes from scratch, you can update the theme project by opening it in Plazmic Theme Builder version 4.7, and then exporting it to the desired version of the BlackBerry Device Software.

1. Click **File** --> **Open**.
2. Navigate to the theme project that was created with an older version of Plazmic Theme Builder.
3. Click **Open**. The Plazmic Theme Builder prompts you to upgrade the theme file to a newer version.
4. Click **OK**.

Save a theme project

1. Click **File** --> **Save**.
2. To save the project with a new name, click **File** --> **Save As**.
3. Type the new theme project name and then navigate to the location you want to save it in. The file is saved in the Plazmic Theme Builder (.thm) format.

Best practice: Naming a theme project

Consider the following when naming theme projects:

- You can save your theme project with any unique name. However, when you export your theme project and create the .cod file, the Plazmic® Theme Builder changes any special characters in the file name (for example, - , +, and &) to underscores (_). If two files have the same name, differentiated only by special characters, they will have identical names when they are exported to a .cod file.

  This can be a problem if you choose the Overwrite Existing Files option in the Export dialog box. The Plazmic Theme Builder will not warn you when it exports and overwrites an existing file with the same name in the same directory, even if the Microsoft® Windows® file names for those two theme projects are unique.

  You should give your theme projects names that are unique, and avoid using special characters.
- Reader is a reserved name; you cannot use it as a theme name.

Changing theme types and screen sizes

When you create a theme, you must select the theme type and the screen size that you want to target. However, if you wish to create a family of related themes that, for example, targets different screen sizes and present different Home screen layouts, the Plazmic® Theme Builder enables you to do so, without you having to create similar looking themes from scratch.

You can change from one theme type to another at any time. Changes you made to the Home screen are lost, since they will no longer apply in the new theme. However, the Plazmic Theme Builder preserves changes elsewhere in the theme.

A single theme project cannot target multiple screen sizes. You must create a new theme to target a different screen size. However, you can leverage design work you've already done for another theme by importing it into your new theme.

When you import a theme that targets a different screen size, all modified theme elements are imported into your new theme. After the theme is imported, you may need to make some slight adjustments, for example, in the placement of banner elements, to achieve the desired results.

Change the theme type

1. Click **Edit** --> **Change Theme type**.
2. Select the theme type you want to use.

Adapt a theme to a different screen size

1. Click **File** --> **New**.
2. In the **Create New Theme** dialog box, complete the fields and select a screen size. You should also choose the same theme type as the theme that you plan to import, or Home screen customizations are not imported.

3.   Click **Create**.
4.   When the new project is created, click **File** --> **Import**.
5.   Navigate to the theme that you want to adapt to the new screen size.

Using fonts

You can set fonts throughout your theme. There are three types of fonts, each of which is identified by an icon adjacent to the font name in the drop-down list. Different font types have different levels of customization:

Font type	Description
BlackBerry® fonts	You can change the fill color and specify the style (bold, italic, and anti-alias). Define the font size for BlackBerry fonts in pixels.
TrueType® fonts	You can change the fill and stroke color, where applicable, and specify the style (bold, italic, and anti-alias). If you select bold or italic settings but a bold or italic version of the font is not available on your computer, the Plazmic® Theme Builder uses the plain version of the font and those settings have no effect. Define the font size for TrueType fonts in pixels.
XFONT® fonts	The amount of customization varies; in some cases, you cannot customize any font settings, in others, you can customize some or all font settings. You cannot adjust the size of XFONT fonts.

Font settings

Setting	Description
Size	The font size specifies the height of the text, in pixels.
Fill color	You can apply a fill color to BlackBerry® system fonts and TrueType® fonts. To display the Color Picker, click the fill swatch.
Bold	The Bold font setting can be applied to any BlackBerry system or TrueType font. However, it you apply the Bold style to a TrueType font, but no bold version of the selected font exists on your computer, this setting will have no effect.
Italic	The Italic font setting can be applied to any BlackBerry system or TrueType font. However, it you apply the Italic style to a TrueType font, but no italic or oblique version of the selected font exists on your computer, this setting will have no effect.
Anti-aliasing	The Anti-alias setting smooths the edges of fonts, which typically improves the legibility of the text. This setting can be applied to any BlackBerry system or TrueType font.

Setting	Description
Stroke color	The Stroke color defines the color of the outline of the text. This setting is only available for text elements on the following Inspector panels: Banner, Home Screen, Icon grid, and Lock screen. When it is available, you can apply it to any BlackBerry system font or TrueType font. The Bold Setting has no effect on the thickness of the font stroke.
Highlight font	The highlight font defines the font to use when menu items are selected or dialog boxes are displayed. This setting is only available for menu items or dialog boxes.

Set the base font for BlackBerry device screens

To achieve a consistent look throughout your theme, use fonts from the same font family, and make minor adjustments to color and size where appropriate.

You can specify the font to use for dialog boxes, buttons, lists, and the phone and message applications from a single location. You can use the Inspector to adjust the base font as necessary, or to choose a different font for a theme element.

The base font you choose is not applied to banner, Home screen, or Lock screen elements.

1. Click **Edit** --> **Change Fonts**.
2. In the **Font** drop-down list, click the font family to use as the base font for the theme.
3. Specify the font settings.

Change text settings for an element

Note that by default, the **AM/PM** element uses the same font family and font settings as the **Time** element. You can specify the size for the **AM/PM** element only if you specify a TrueType® font for the **Time** element.

1. Click a button at the left of the Inspector pane.
2. In the corresponding area for the element, specify the text settings.

Best practice: Using fonts effectively in themes

- **Limit the number of fonts used:** To achieve a consistent look throughout your theme, you should try to use fonts that are from the same font family, and make minor adjustments to color and size, where appropriate. With the Plazmic® Theme Builder, you can set a default font for use across the theme, so you need only adjust font characteristics such as size and color. You then have to set the font family only in those cases where a different font style is appropriate.
- **Be aware of the legibility of the text:** Consider how the font properties affect the user's ability to read the text. For most fonts, you can set the following four properties:

- **Color**: As with images, you should use a limited color palette for fonts. Consider the background color as well; text becomes illegible when displayed on a background of a similar color or brightness. Consider using the same color for highlighted text on all controls.
- **Bold**: You should use bold text when text needs added emphasis, such as in a highlighted menu item.
- **Italics**: Italicized text can interfere with readability; you should use it sparingly.
- **Anti-alias**: Anti-aliasing smooths the font edges, typically improving the appearance and legibility of the font; however, it also increases the size of the theme file. Note that with very small fonts, anti-aliasing can create a blurred effect, and can actually decrease the legibility of the font.
- **Limit the number of TrueType fonts used**: With the exception of BB Alpha fonts, the BlackBerry® device does not support TrueType® fonts. The Plazmic Theme Builder converts all the glyphs in other TrueType font sets into a series of bitmaps. Any changes to the properties of a TrueType font requires its own complete set of bitmaps. For example, if you use the same TrueType font in a menu but specify different colors for the highlighted and normal text, the Plazmic Theme Builder must generate two complete sets of bitmaps.

Creating and using images

Working with images

When you add an image to a theme project, the Plazmic® Theme Builder converts the image from its original format to .png format and stores the converted image as part of the theme. If you change the source image, the Plazmic Theme Builder does not automatically update the image in the theme; you must reload the source image into the theme to update it. If you had previously added the image to a catalog, you must remove it from the catalog and then add it to the catalog again.

Add an image

1. In the Inspector, click the name of the changed image that you want to reload. A context menu appears.
2. On the context menu, click **Reload Image**.

Edit an image

You can edit an image using the default application you specified in the tool preferences.

1. In the Inspector, click the name of the changed image that you want to edit. A context menu appears.
2. On the context menu, click **Edit Image**.

View the name and dimensions for an image

You can view the name and dimensions of any image used in the theme.

> To display the file name and dimensions of an image, place your pointer over the image in the Inspector.

Creating background images for dynamically sized screen elements

Designing background images for dialog boxes, buttons, menus, and title bars presents a number of challenges for theme designers, for two reasons:

*   They are dynamic in size: Dialog boxes, buttons, and menus are scaled to fit the text that they contain. Because theme designers do not know the size of the element, they cannot design background images to fit; images must be scalable to accommodate any possible size.
*   They are overlay elements: Dialog boxes, buttons, menus, and title bars should be separated from the screen content that they overlay so they stand out. Typically, most UIs use borders to separate elements from the screen content that they overlay, to create a three-dimensional layering effect.

Since background images for dynamic elements require borders and are of an unknown size, static images are not sufficient. Creating an image that includes the border and background and then scaling it to fit does not work because the borders scale as well, resulting in inconsistent border widths across similar elements. Creating separate images for the borders and background is also not a satisfactory solution because the resulting number of resources required is impractical.

To achieve a scalable image background with consistent border widths, the Plazmic® Theme Builder uses pattern tile images. A pattern tile is a single image that includes the border and a repeatable pattern for the background fill. After you create a pattern tile, you can use the Tile Image dialog box to create the tile definition—that is, to differentiate between the repeatable tile portion and the border portions of the image.

The tile definition informs the Plazmic Theme Reader on the BlackBerry® device how to manipulate the image for a dynamically sized element. The Plazmic Theme Reader scales as necessary the portions you define as the border to surround the edges of the element, and it tiles the portion you define as the repeatable pattern to fill the entire background.

For example, suppose you create the following pattern tile:

When you use this pattern tile as the background image for a dynamically sized element, such as a dialog box, you must open the **Tile Image** dialog box to create the tile definition:
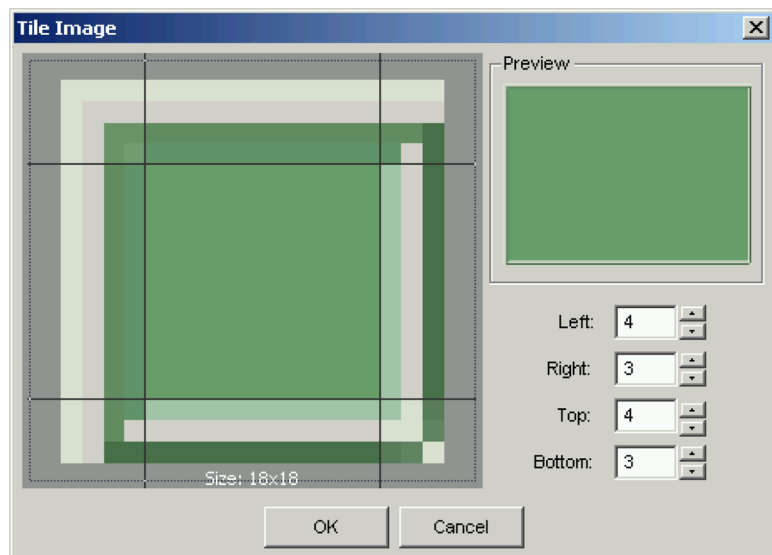
After you create the tile definition, the rendered effect is visible in the Plazmic Theme Builder preview pane.

Creating images with multiple states

The BlackBerry® themes contain several elements for which a single static image is not sufficient. Some images must visually represent different levels, or states. For example, the battery power indicator displays how much power remains in the battery; this indicator must visually convey the battery power level, from 100% to 0%. The image must also show the increase in the battery power level as the battery charges. In addition, you must include an indicator for cases when the BlackBerry device is unable to determine the battery power level.

Instead of specifying a separate image for each state, the Plazmic® Theme Builder manages these elements by using composite images. Composite images are made up of a number of component images that depict every possible state for a given element.

Images with multiple states

Component images can be of any dimension; however, each component image within these images must have the same height and width. To determine the correct dimensions of each image, the Plazmic® Theme Builder takes the dimensions of the composite image and divides the width by the number of images per row, and the height by the number of rows. For example, the composite image for the wireless coverage indicator is made up of a single row of nine component images. Therefore, if the composite image is 10x180 pixels, then the size of each component image is 10x20 pixels.

Element	Location	Component images	Description
Battery power indicator	Banner	24	Two rows of 12 equal-sized images. The component images include, from left to right: • Top row: 11 images representing the battery power level from 0% to 100%, in 10% increments, and one image for unknown battery status. • Bottom row: 11 images representing the battery power level from 0% to 100%, in 10% increments, and one image for unknown battery status, each with a charging indicator.

Element	Location	Component images	Description
			For example:
Wireless coverage indicator	Banner	9	One row of nine equal-sized images. The component images include, from left to right: • wireless network off • wireless network unavailable • wireless network available (six images, representing signal strength from 0 to 5 signal bars) • wireless network status unknown For example:
Wi-Fi coverage indicator	Banner	5	One row of five equal-sized images. The component images include, from left to right: • Wi-Fi off • Wi-Fi network unavailable • weak Wi-Fi signal • moderate Wi-Fi signal • strong Wi-Fi signal For example:
Unread icons	Banner		One row of ten equal-sized images that are displayed in the banner, indicating that there is an unread message associated with a BlackBerry Application. The component images include, from left to right: • email message • filed email message • voice mail message • saved web page request • calendar reminder

Element	Location	Component images	Description
			• BlackBerry Messenger message • SMS text message • anonymous message • task reminder • push channel update For example:
Message icons	Message list	96	Four rows of 24 equal-sized images, representing all possible message types that can be displayed in the banner. The message list can contain messages of three types: email messages, SMS (text) messages, and MMS (media) messages. The component images include, from left to right: • First Row: empty slot, three images for incoming email message (unread, read, error), nine images for outgoing email message (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, transmission error), two images for filed email message (unread, read), empty slot, empty slot, two images for incoming ringtone (unplayed, played), two images for incoming pager message (unopened, opened), two images for messages with attachments (unread, read), two images for calendar reminders (unread, read), and one image for download attachment • Second row: empty slot, three images for incoming SMS message (unread, read, error), nine images for outgoing SMS message (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, transmission error), two images for filed SMS message (unread, read), followed by nine empty slots • Third row: empty slot, two images for incoming security message (unread, read), empty slot, two images for incoming signed read receipt (unread, read), followed by 18 empty slots

Element	Location	Component images	Description
			• Fourth row: empty slot, three images for incoming MMS message (unread, read, error), nine images for outgoing MMS message (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, transmission error), two images for filed MMS message (unread, read), followed by nine empty slots
			For example:
Web icons	Message list	5	One row of five equal-sized images, representing all the possible browser-related messages than appear in the messages list. The component images include, from left to right:
			• page request sending
			• page request pending
			• page request returned and unviewed
			• page request returned and viewed
			• error receiving page request
			For example:
Phone	Phone (Active Call)	varied	One row of images, representing, from left to right, the different phone states.
			For example:
			There are seven states on the following devices: BlackBerry® Bold™ 9000, BlackBerry® 8800 Series, BlackBerry® 8700 Series, BlackBerry® Curve™ 8300 Series, BlackBerry® Pearl™ 8220, BlackBerry® Pearl™ 8100 Series, and BlackBerry® 7100 Series devices.

Element	Location	Component images	Description
			BlackBerry® Curve™ 8900 devices have nine states, BlackBerry® Storm™ 9500 devices have 11 states, and BlackBerry® Curve™ 8350i devices have 13 states.
Phone volume	Volume (Active Call)	9	One row of nine images, representing, from left to right, the different phone volume states.
			For example:

Using colors   5

You can use the Plazmic® Theme Builder Color Picker to specify the color of a theme element or to define and save a palette of custom colors. You can also save custom colors by dragging colors from the Plazmic Theme Builder Inspector to the catalog.

Specify a color

1. To open the Color Picker, click a color swatch.
2. To specify a color, perform one of the following actions:

Option	Description
Specify an RGB color.	a. Click the **RGB** tab. b. Move the **Red**, **Green**, and **Blue** color slide bars to adjust the color.
Specify an HSB color.	a. Click the **HSB** tab. b. Move the **Hue**, **Saturation**, and **Brightness** slide bars to adjust the color.
Select a color from the color wheel.	a. Click the **Wheel** tab. b. To adjust the luminosity, move the slide bar on the luminosity scale at the right. c. Drag the pointer in the color wheel to the color you want. Each pixel in the wheel represents a different color.
Specify a CMYK color.	a. Click the **CMYK** tab. b. Move the **Cyan**, **Magenta**, **Yellow**, and **Black** color slide bars to adjust the color.
Select a web-safe color.	a. Click the **Web** tab. b. Click one of the web-safe color swatches.
Select a color sample from anywhere on the screen.	a. Click the eyedropper button to change the cursor to the eyedropper tool. b. Hold the pointer as you drag the eyedropper tool anywhere on the screen. The color selection box changes as you drag the eyedropper tool. c. To select a color, when the eyedropper tool is positioned over the color you want, release the pointer.

3. To convert the selected color to a web-safe color, click the Web safe setting. The Plazmic® Theme Builder converts the color in the color selection box to the closest web-safe color.

4. To save a color to the custom color palette, click the color displayed in the color selection box and drag it to any color swatch on the custom color palette.

5. To apply the color to the theme element without closing the Color Picker, click **Apply**.

6. To apply the color and close the Color Picker, click **OK**.

Apply a color to a theme element

1. Click a button at the left of the Inspector pane.

2. Select a color.

3. To convert the selected color to a web-safe color, click the **Web safe** setting. The Plazmic® Theme Builder converts the color in the color selection box to the closest web-safe color.

4. To save a color to the custom color palette, click the color displayed in the color selection box and drag it to any color swatch on the custom color palette.

5. To apply the color to the theme element without closing the Color Picker, click **Apply**.

6. To apply the color and close the Color Picker, click **OK**.

Designing banners   6

The device banners appear on the Homescreen and at the top or bottom of several BlackBerry® applications. The Homescreen banner is used on the Home screen and Lock screen. The Application banner is used on the Message List, Active Call, Phone Hotlist, and Application menu screens. The banners display the date and time, network connectivity information, and notification icons.

The Plazmic® Theme Builder enables you to completely customize the device banners; you can replace banner images and indicator images with your own, apply custom fonts, and customize the color scheme. You can also adjust the banner height and reposition elements within the banner.

Note that the Alarm, Unread Icons, and New Items overlay are shared between banners, and cannot be themed independently. Any changes made to these objects on either of the Homescreen or Application banners will appear on both.

Change the background image for a banner

1. Click the **Banner** button at the left of the Inspector pane.
2. Click the **Background** thumbnail image.
3. Navigate to the image to use as the background image for the banner.

Add or remove banner icons

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Visibility** section, elect or clear the check box for any of the following icons:
    *   Time
    *   Date
    *   Network
    *   Profiles Icon
    *   Alarm Icon
    *   Unread Indicator Area
    *   Battery Meter
    *   Signal Meter

Change the size of a banner

1. Click the **Banner** button at the left of the Inspector pane.

2.   In the **Banner** section, in the **Height** field, specify the height of the banner in pixels. You can set the banner height to a
     minimum height of 20 pixels and a maximum of 120 pixels.

Reposition the banner elements

1.   Click the **Banner** button at the left of the Inspector pane.
2.   In the **Banner** section, click **Reposition Banner Objects**. In the preview pane, movable bounding boxes appear around
     each banner element.
3.   Select a bounding box and drag it to the location you want, or select multiple boxes and use the Alignment Tools to reposition
     them.
4.   To resize an editing frame, drag a node on the edge or corner of the editing frame.
5.   Repeat steps 2 and 3 to reposition and resize additional elements.
6.   To hide the bounding boxes, click **Reposition Banner Objects**.

Change the underlay image for the Profiles application

1.   Click the **Banner** button at the left of the Inspector pane.
2.   Click the **Homescreen Banner** tab.
3.   In the **Banner** section, click the **Focus Icon** thumbnail image.
4.   Navigate to the image that displays underneath the Profiles application icon when the Profiles application is selected.

Change the text settings for banner elements

1.   Click the **Banner** button at the left of the Inspector pane.
2.   In the **Fonts** section, in the drop-down list beside each of the following text elements, click the font family to use:
     - **Time**
     - **Date**
     - **Network**
     - **Carrier**
     - **Unread**
3.   Specify the text settings.
4.   If it is available, specify the font size for the **AM/PM** element.
     By default, the **AM/PM** element uses the same font family and font settings as the **Time** element. You can specify the size
     for the **AM/PM** element only if you specify a TrueType® font for the **Time** element.

Change the image for the battery power indicator

The image you select for the battery power indicator must be a composite image made up of two rows of 12 images, one image for each possible battery power level (12 images to indicate battery power levels, and 12 to indicate battery power levels while charging).

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **Battery Meter** thumbnail image.
3. Navigate to the composite image to use as the battery power indicator.
4. To change which component image displays in the preview pane, click the **Preview** button to display the entire composite image, then click the image to display.

Change the image for the wireless coverage indicator

The image you select for the wireless coverage indicator must be a composite image made up of one row of nine images (one image for each possible level of wireless coverage).

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **Signal Meter** thumbnail image.
3. Navigate to the composite image to use as the wireless coverage indicator.
4. To change which component image displays in the preview pane, click the **Preview** button to display the entire composite image, then click the image to display.

Change the image for the alarm indicator

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **Alarm Icon** thumbnail image.
3. Navigate to the image to use as the overlay image for the alarm indicator in the banner.

Change the image for the Wi-Fi coverage indicator

The image you select for the Wi-Fi® coverage indicator must be a composite image made up of one row of five images (one image for each possible level of Wi-Fi coverage).

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **Wi-Fi Signal Meter** thumbnail image.
3. Navigate to the composite image to use as the Wi-Fi coverage indicator.
4. To change which component image displays in the preview pane, click the **Preview** button to display the entire composite image, then click the image to display.

Change the image for the new item indicator

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **New Items** thumbnail image.
3. Navigate to the image to use as the overlay image for the new item indicator in the banner.

Change the image for banner icons

The banner displays a number of notification icons, indicating that there is an unread message associated with a BlackBerry® Application. The unread icons that display in the banner are included in a single composite image. Icons must be arranged and saved as a single image according to a specific layout.

1. Click the **Banner** button at the left of the Inspector pane.
2. In the **Indicators** section, click the **Unread Icons** thumbnail image.
3. Navigate to the composite image that contains all the unread icon images.
4. To change which component image displays in the preview pane, click the **Preview** button to display the entire composite image, then click the image to display.

Customizing the Home screen   7

The Home screen for each available base theme is unique, and is the primary difference between the base themes. You can customize different elements depending on the theme type you choose.

All theme types include the application icons screen; it is used as the Home screen layout for the Icon theme type, and as the Application Menu screen for the Zen, Today and Custom theme types.

Customizing a Zen theme Home screen

Specify the applications that appear on the Zen Home screen

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the list of BlackBerry® Applications, click an application and drag it to the **Zen Applications** list.
   - To replace an application in the list, drag the new application directly over the old application.
   - To add an application to the list, drag the new application onto the separator between two applications. The last application in the list is removed as the new application is added.
3. Repeat step 2 to add additional applications.
4. Reorder the applications as necessary:
   - To move an application in the **Zen Applications** list, drag it up or down.
   - To switch the position of two applications, drag one application directly over the other.

Specify fonts for Zen Home screen text

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the **Status Font** drop-down list, click the font family you want to use for text on the Home screen.
3. Specify font settings.

Specify images for a Zen Home screen

1. Click the **Home Screen** button at the left of the Inspector pane.
2. Click one of the following thumbnail images:

Option	Description
Background	An image that displays in the background on the Home screen.

Tab	An image that displays beneath the application icon on the Home screen.
Tab Focus	An image that displays beneath the application icon when it is selected.

3.   Navigate to the image you want to use.

Customizing a Today theme Home screen

Specify the applications that appear on the Today Home screen

The Today theme displays three application icons on the Home screen, by default (Messages, Calendar, and Call Log). You can add as many applications as you like to the Today Applications list; however, the Plazmic® Theme Builder only displays as many as will fit on the screen.

1.   Click the **Home Screen** button at the left of the Inspector pane.
2.   In the list of BlackBerry® Applications, click an application and drag it to the **Today Applications** list.
   - To replace an application in the list, drag the new application directly over the old application.
   - To add an application to the list, drag the new application onto the separator between two applications.
3.   Repeat step 2 to add additional applications.
4.   Reorder the applications as necessary.
   - To move an application in the **Today Applications** list, drag it up or down.
   - To switch the position of two applications, drag one application directly over the other.
   - To remove an application from the **Today Applications** list, select the application and click the **Trash** icon.

Specify fonts for Today Home screen text

1.   Click the **Home Screen** button at the left of the Inspector pane.
2.   In the **Font** drop-down list, click the font family to use for text on the Home screen.
3.   Specify font settings.

Specify images for a Today Home screen

1.   Click the **Today Home Screen** button at the left of the Inspector pane.
2.   Click one of the following thumbnail images:

Option	Description
Background	An image that displays in the background on the Home screen.

Caret	An image that displays beneath the selected application on the Home screen.
App Menu	An image that is added to Home screen and, when clicked by the user, displays the Application Icons screen.

3. Navigate to the image you want to use.

Designing a custom Home screen

By selecting the custom theme type, you can design a custom Home screen. add Zen theme and Today theme items to the Home screen. These application items can be positioned anywhere on the Home screen.

Specify the Home screen background

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the **Applications** section, click the **Background** thumbnail image.
3. Navigate to the image to use as the background image for the Home screen.

Customize the Home screen with an SVG file

You can use an SVG file created using Plazmic® Composer to create a fully customized Home screen.

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the **Applications** section, click the folder icon to the right of the **SVG File** field.
3. Specify an SVG file to use for the Home screen.

Layer the Home screen over the banner

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the **Applications** section, check **Render Home Screen Over Banner**.

Specify the icon used for the Application Menu

1. Click the **Home Screen** button at the left of the Inspector pane.
2. In the **Applications** section, click the **Application Menu** thumbnail image.
3. Navigate to the image to use as the Application Menu icon.

Reposition the Home screen application icons

1. Click the **Home Screen** button at the left of the Inspector pane.

2. In the **Applications** section, click **Reposition Applications**. In the preview pane, movable bounding boxes appear around each application icon and associated text.

3. Select a bounding boxes and drag it to the location you want. You can select and move multiple bounding boxes at once.

4. Repeat steps 2 and 3 to reposition additional elements.

5. To turn off editing mode, click **Reposition Applications**.

Specify Status text for a custom Home screen

1. Click the **Home Screen** button at the left of the Inspector pane.

2. In the **Theme Extras** section, click **Status Text**.

3. In the **Status Text** drop-down list, click the font family to use for Status text on the Home screen.

4. Specify text settings.

Customize the cursor navigation path on a custom Home screen

1. Click the **Home Screen** button at the left of the Inspector pane.

2. In the **Navigation** section, click the center icon to choose an application.

3. Click each of the surrounding icons to determine cursor navigation order from that application to each of the other applications.

4. Specify one of the following navigation settings:

Option	Description
Default Connections	You can specify which direction to automatically create navigation connections for additional applications. You can choose to automatically create vertical or horizontal connections. If you choose not to automatically create connections, you must create them manually for applications you want to add to the navigation.
Navigational History	You can specify how much of the navigational history to retain. Set this option to retain a complete history, a single step, or no history at all.
Show Navigational Paths on the Preview	Set this option to show the navigation paths in the Preview pane.

Specify Today items to appear on the Home screen

1. Click the **Home Screen** button at the left of the Inspector pane.

2. In the **Applications** section, add applications to the **Applications** list using the **Today** button.

3.   In the **Applications** section, select an application slot to customize.

4.   Open the **Properties** section of the Custom Home screen Inspector.

5.   Click the **Application** (🎨) button and choose the application to display in this slot on the Home screen.

6.   In the **Font** drop-down list, click the font family to use for the main application text.

7.   Specify the text settings.

8.   In the **Subentry** drop-down list, click the font family to use for the subentry text.

9.   Repeat step 6 to specify the text settings for the subentry text.

10. To specify the image to display beneath the application icon when it is selected, click the **Focus** thumbnail image, then navigate to the new image.

11. If the selected application can have subentries (for example, the messages or calendar application), in the **Subentries** field, specify the number of subentries to display.

12. In the **Theme Extras** section, select the **Today Area** check box to display Today entries on the Home screen.

Specify Zen items to appear on the Home screen

1.   Click the **Home Screen** button at the left of the Inspector pane.

2.   In the **Applications** section, add applications to the **Applications** list using the **Zen** button.

3.   In the **Applications** section, select an application slot to customize.

4.   Open the **Properties** section of the Custom Home screen Inspector.

5.   Click the **Application** (🎨) button and choose the application to display in this slot on the Home screen.

6.   To specify the images to display beneath the application icon, click one of the following thumbnail images, then navigate to a new image.

Option	Description
Tab	An image that displays beneath the application icon on the Home screen.
Tab Focus	An image that displays beneath the application icon when it is selected.
Tab Flash	An image that is animated if **Icon Animation** is set to **Flash** or **Glow**.

7.   To order applications according to the default sort order on the device, select **Use Device Application Order**.

8.   In the **Icon Animation** drop down, choose an animation style. The animation style defines how the application icon behaves when the application is selected.

9.   To hide the text for the application icon, clear **Show Text**.

10. If you choose to show the text, in the **Font** drop-down list, click the font family you want to use, then specify the text settings.

11. In the **Text Animation** drop-down list, choose an animation style. The animation style defines how the text behaves when the application is selected.

12. In the **Margin** field, specify the distance, in pixels, between the application icon and the associated text.

13. To right-align the text, in the **Text Position** drop-down list, select **Right**.

Customizing the Application Icons screen

The application icons screen is included with all theme types: it is the Home screen layout for the Icon theme type, and is the Application Menu screen for the Zen, Today, and Custom theme types.

Specify fonts for Application Icon text

1. Click the **Application Icons** button at the left of the Inspector pane.

2. In the **Font** drop-down list, click the font family to use for text on the Home screen.

3. Specify font settings.

Specify the background image for the Application Icons screen

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Click the **Background** thumbnail image.

3. Navigate to the image to use as the background image for the Home screen and application icons.

Specify the overlay image for the new item indicator

1. Click the **New Items** thumbnail image.

2. Navigate to the image to use as the overlay image for the new item indicator.

Specify the image for the move icon

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Click the **Move Icon** thumbnail image.

3. Navigate to the image to use as the icon used to indicate an application is being moved.

Specify the underlay image for icons on the application grid

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Click the **Underlay** thumbnail image.

3. Navigate to the image that displays underneath icons in the application grid.

Specify the image to use for highlighting the selected application icon

The BlackBerry® UI uses a separate image to highlight the selected icon. The highlight image is layered above (overlay) or below (underlay) the application icon. If you specify Overlay, use a semi-transparent image so that the icon is visible beneath it.

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Click the **Focus Icon** thumbnail image.

3. Navigate to the image to use to highlight the selected icon on the Home screen.

4. To specify that the image appears in front of (overlay) or behind (underlay) the icon, click **Overlay** or **Underlay**.

Specify new icons for the BlackBerry device applications

You can customize any or all of the BlackBerry® Application icons. Each BlackBerry Application has two icons associated with it:
- Normal state: Displayed when the icon is not selected. The image depicts the application icon in its normal state.
- Focus state: Displayed when the icon is selected. This image depicts the application in a highlighted, or in-focus, state, and is always displayed in conjunction with the highlighted underlay or overlay image.

You can use the same source image for both icons; however, you must still specify an image for each. When you export the theme, the Plazmic® Theme Builder creates an image file with a unique name for each icon, even if you use the same source image for both.

1. Click the **Application Icons** button at the left of the Inspector pane.

2. In the **Normal** column of the Icon list, click an application icon.

3. Navigate to the image that represents the application icon when it is not selected.

4. In the **Focus** column of the Icon list, click the icon for the same application.

5. Navigate to the image that represents the application icon when it is selected.

6. Repeat steps 2 through 5 for each additional application you want to customize.

7. To use the default icon, right-click the icon, and then click **Reset to Default**.

8. To update an icon for which you have modified the source image, right-click the icon, and then click **Reload Image**.

9. To view image dimensions, right-click an icon, and then click **Image Information**.

Change multiple BlackBerry Application icons at once

You can change some or all of the BlackBerry® Application icons at once. You must first create the new icon images with file names identical to those you want to replace and store them in a single folder.

1. Click the **Application Icons** button at the left of the Inspector pane.

2. In the **Icon** list, right-click and click **Change All Icons**.

3. Navigate to the folder with the new icons, then click **OK**. The Plazmic® Theme Builder copies the files from the selected folder into the theme project file and overwrites any images with the same filename.

4. To use the default icon for an application, right-click the icon, and then click **Reset to Default**.

5. To update an icon for which you have modified the source image, right-click the icon, and then click **Reload Image**.

6. To view image dimensions, right-click an icon, and then click **Image Information**.

Organize applications in the application grid

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Click **Edit Application Hierarchy**.

3. In the Application Hierarchy Editor, drag an application up or down in the applications list or into a folder.

4. To create a new folder, click the **New Folder** button, then rename the new folder.

5. To delete a folder, select the folder, and click the **Delete** button. Subfolders are also deleted. Any applications in the deleted folder or subfolders are moved to the parent folder.

6. Click **Save**.

Add a web link as an application

You can provide a shortcut to a particular web page address by adding up to ten web links to the application icons screen. When the user clicks a web link icon, the browser opens and displays the specified web page.

Only BlackBerry® devices running BlackBerry Device Software version 4.5 or higher support this feature. If a user loads a theme using web links on a device running an earlier version of the BlackBerry Device Software , the BlackBerry device ignores it and does not display it on the application icons screen.

1. Click the **Application Icons** button at the left of the Inspector pane.

2. Open the **Web Links** section of the Application Icons screen Inspector.

3. Select **Add Web Link**.

4. In the **Name** field, type a name for the application. This name appears on the application icons screen, prepended with the phrase "Web Link:".

5. In the **Address** field, type the web page address to display in the browser when the user clicks the application icon.

6. Click **OK**.

Change the inbox configuration

The BlackBerry® Device Software includes several message applications: email, SMS (text), and MMS (media). You can configure these applications to send received messages to one inbox, three separate inboxes, or any combination in between. The BlackBerry user can set the inbox configuration and override your configuration. However, by default, the theme controls this setting.

The inbox configuration affects the design of the Home screen; for example, if you plan to add separate icons for email messages, SMS messages and MMS messages, messages must be sent to separate inboxes. If an icon is added for an inbox that does not exist, the icon does not appear on the Home screen. However, the theme reader on the BlackBerry device does not shift the remaining icons are up to occupy the space; instead, it leaves the slot empty.

1. Click **Edit** --> **Preferences**.
2. Click the **Messages** tab.
3. Select the inbox configuration.

Customizing touch screens

You can customize BlackBerry® Storm™ Series smartphones using the same elements you use for other BlackBerry devices. However, you can access additional touch screen device elements from the Inspector and the tool bar, to customize additional UI elements for portrait and landscape modes.

Customizing the Shortcut bar

The Shortcut bar appears only on BlackBerry® Storm™ 9500 smartphones.

Specify backgrounds for the Shortcut bar

1. Click the **Shortcut Bar** button at the left of the Inspector Pane.
2. Click the thumbnail image for a background.
3. Navigate to the image to use for the background.

Specify navigation images for the Shortcut bar

1. Click the **Shortcut Bar** button at the left of the Inspector Pane.
2. Click the thumbnail image for the up or down navigation.
3. Navigate to the image to use for the navigation icon.

Change device orientation

You can theme the banners, Application icons screen, Lock screen, and Shortcut bar screen separately for landscape and portrait mode on BlackBerry® touch screen devices.

1. On the tool bar, click **Change Device Orientation** ( ).

   The screen orientation changes.

2. To link changes in both landscape and portrait mode, **Link Portrait and Landscape Changes** ( ).

Changes you make in one mode are reflected in both portrait and landscape mode.

Customizing external flip screens

You can customize BlackBerry® Pearl™ 8220 smartphones using the same elements you use for other BlackBerry devices. However, you can access additional flip device elements from the Inspector to customize additional UI elements on the external screen.

Customize the external Home screen

1.   Click the **Theme External Screen** button at the left of the Inspector pane.
2.   Click the **External Homescreen** tab.
3.   To change text settings for network and unread items, specify the settings in **Network** and **Unread** respectively.
4.   To change the background, lock icon, or indicators, click a thumbnail image and navigate to the new image you want to use.
     Multistate items include a **Preview** button to the right of the image.
5.   To reposition objects on the Home screen, click **Reposition Homescreen objects**.

Customize the external phone screen

1.   Click the **Theme External Screen** button at the left of the Inspector pane.
2.   Click the **Phone** tab.
3.   To change the background or phone icon and volume images, click a thumbnail image and navigate to the new image you want to use.
     Multistate items include a **Preview** button to the right of the image.
4.   To change the font color for phone screen text, click the color swatch next to **Font Color**.

Customize indicators on the external screen

1.   Click the **Theme External Screen** button at the left of the Inspector pane.
2.   Click the **Notification** tab.
3.   To change the background or foreground image, click a thumbnail image and navigate to the new image you want to use.
4.   To change the font color for notification text, click the color swatch next to **Font Color**.
5.   To change the indicator images for notifiers, click the **Show Notifiers** radio button and click a thumbnail image for each type of notifier.
6.   To change the indicator images for alerts, click the **Show Alerts** radio button and click a thumbnail image for each type of alert.

Customizing BlackBerry Application screens   8

Customizing the messages application screen

Specify the font for the date text

1.   Click the **Message List** button at the left of the Inspector pane.
2.   In the **Date Font** drop-down list, click the font family to use for the date text in the message list.
3.   Specify the text settings.

Specify a tiled image as the background for the message list date bar

1.   Click the **Message List** button at the left of the Inspector pane.
2.   Click the **Background** thumbnail image.
3.   Navigate to the image to use as the background pattern for the messages list date bar.
4.   To specify the tile and border portions of the image, click the **Tile Image** button.
5.   To specify the limits of the central pattern tile, in the **Tile Image** dialog box, drag each of the border guides the appropriate distance, or manually specify the thickness for the left, right, top, and bottom borders, in pixels, in the appropriate fields.

Change the message list icons

The message list displays a number of icons that identify the type and status of the messages in the list. These icons include images for email and text messages, as well as browser messages (for example, for saved browser requests or pushed browser content).

The icons that display in the message list are included in two composite images: one for message-related icons; and one for the browser-related icons. You must create new icons and arrange them into composite images according to a specific layout.

1.   Click the **Message List** button at the left of the Inspector pane.
2.   Click the **Icons** thumbnail image.
3.   Navigate to the composite image that contains all the message icon images.
4.   Click the **Web Icons** thumbnail image.
5.   Navigate to the composite image that contains all the web icon images.
6.   To view a different icon in the preview pane, click the **Preview** button to display the entire composite image, then click the icon that you want to display.

Specify the color for alternating rows in lists

1. Click the **Message List** button at the left of the Inspector pane.
2. Click the **List Stripe** color swatch.
3. Use the Color Picker to select the color to display as the background for every other list item.

Specify a color for priority items in lists

1. Click the **Message List** button at the left of the Inspector pane.
2. Click the **Priority 1** color swatch.
3. Use the Color Picker to select the color to display for priority list items.

Customizing the phone application screens

Specify the text color for the dialed number or the BlackBerry device number

1. Click the **Phone Screens** button at the left of the Inspector pane.
2. Click the **Phone Hotlist** tab.
3. Click the **Calling Number** or **My Number** color swatch to open the Color Picker.
4. Select a text color.

Customizing the Active Call screen

Specify the color of the Active Call screen text

1. Click the **Phone Screens** button at the left of the Inspector pane.
2. Click the **Active Call** tab.
3. On the **Active Call** tab, click the **Font Color** color swatch to open the Color Picker.
4. Select a text color.

Specify a composite image for the volume slide bar

The volume slide bar image you select must be a composite image made up of one row of 11 images, one image for each possible volume level.

1. Click the **Phone Screens** button at the left of the Inspector pane.
2. Click the **Active Call** tab.

3. Click the **Volume** thumbnail image.

4. Navigate to the image to use as the volume slide bar image.

5. To view a different volume level in the preview pane, click the **Preview** button to display the entire multistate image, then click the volume level you want to display.

Specify an image as the background pattern in the Active Call screen

1. Click the **Phone Screens** button at the left of the Inspector pane.

2. Click the **Active Call** tab.

3. On the **Active Call** tab, click the **Background** thumbnail image.

4. Navigate to the image to use as the background image.

Customize the Phone Call icons

1. Click the **Phone Screens** button at the left of the Inspector pane.

2. Click the **Active Call** tab.

3. Click the **Phone** thumbnail image.

4. To view a different phone icon in the preview pane, click the **Preview** button to display the entire multistate image, then click the phone icon you want to display.

Additional Active Call settings for touch screen devices

In addition to the Active Call settings available for all devices, you can theme the following elements for BlackBerry® Storm™ Series smartphones.

Area	Element	Description
Active Phone Call	Button Focus	Change the focus image for buttons.
	Position	Reposition Active Call screen objects.
Fonts	My Number	Change text properties for the device phone number.
	Call Timer	Change text properties for the call timer.
	Status	Change text properties for status text.
	Conference	Change text properties for conference call text.
	Buttons	Change text properties for button text.
Icons	Speaker	Change the icon image for the **Speaker** button.
	Flash/Hold	Change the icon image for the **Flash/Hold** button.
	Resume	Change the icon image for the **Resume** button.
	Bluetooth	Change the icon image for the **Bluetooth** button.

Area	Element	Description
	Mute	Change the icon image for the **Mute** button.
	Add Participant	Change the icon image for the **Add Participant** button.
	Join	Change the icon image for the **Join** button.
	Unmute	Change the icon image for the **Unmute** button.

Customizing the Incoming Call screen

Specify the color of the Incoming Call screen text

1. Click the **Phone Screens** button at the left of the Inspector pane.
2. Click the **Incoming Call** tab.
3. On the **Incoming Call** tab, click the **Text Color** color swatch to open the Color Picker.
4. Select a text color.

Specify an image as the background pattern in the Incoming Call screen

1. Click the **Phone Screens** button at the left of the Inspector pane.
2. Click the **Incoming Call** tab.
3. On the **Incoming Call** tab, click the **Background** thumbnail image.
4. Navigate to the image to use as the background image.

Additional Incoming Call settings for touch screen devices

In addition to the Incoming Call settings available for all devices, you can theme the following elements for BlackBerry® Storm™ Series smartphones.

Area	Element	Description
Incoming Phone Call	Button Focus	Change the focus image for buttons.
	Position	Reposition Active Call screen objects.
Fonts	Call Text	Change text properties for call text.
	Caller Name	Change text properties for the name of the caller.
	Caller Number	Change text properties for the incoming phone number.
	Caller Info	Change text properties for caller information.
	Buttons	Change text properties for button text.

Customizing the Lock screen

Set fonts for Lock screen text

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. In the **Font** drop-down list, select the font family to use for the text on the lock screen.
3. Specify the text settings.

Set an image as the Lock screen background

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. Click the **Background** thumbnail image.
3. Navigate to the image to use as the lock screen background. If the image does not have the same dimensions as the BlackBerry® device screen, the Plazmic® Theme Builder scales the image to fit.

Set the Lock screen icon

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. Click the **Lock Icon** thumbnail image.
3. Navigate to the icon to display on the lock screen to indicated that the BlackBerry® device is locked.

Customize the Lock screen with an SVG file

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. Click the folder icon to the right of the **Custom SVG** field.
3. Navigate to the SVG file to use for the lock screen.

Arrange the Lock screen elements

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. Click **Reposition Lock Screen Objects**. In the preview pane, movable bounding boxes appear around each banner element.
3. Select a bounding box and drag it to the location you want, or select multiple boxes and use the Alignment Tools to reposition them.
4. To resize an editing frame, drag a node on the edge or corner of the editing frame.
5. Repeat steps 2 and 3 to reposition and resize additional elements.
6. To hide the bounding boxes, click **Reposition Lock Screen Objects**.

Layer the Lock screen over the banner

1. Click the **Lock Screen** button at the left of the Inspector pane.
2. Check **Render Lock Screen Over Banner**.

Customizing UI elements

9

Customizing dialog boxes and dialog box buttons

Show or hide the dialog box preview

You can configure the dialog box and dialog box button settings even when these elements do not display in the preview pane. For best results, you should preview the dialog box and dialog box buttons when you change their settings to ensure that they work well with the theme elements that they overlay.

1. Click the **Controls** button at the left of the Inspector pane.
2. At the top of the Controls Inspector, select **Show Dialog/Buttons**.

Specify dialog box fonts

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Dialog** section of the Controls Inspector.
3. In the **Font** drop-down list, click the font family to use for text in the dialog boxes.
4. Specify text settings.

Specify a tiled image for a dialog box background

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Dialog** section of the Controls Inspector.
3. Click the **Background** thumbnail image.
4. Navigate to the image to use as the background for the dialog boxes or dialog box buttons.
5. To specify the tile and border portions of the image, click the **Tile Image** button.
6. To define the limits of the central pattern tile, in the **Tile Image** dialog box, drag each of the border guides the appropriate distance, or manually specify the thickness for the left, right, top, and bottom borders, in pixels, in the appropriate fields.

Specify a solid color for a dialog box background

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Dialog** section of the Controls Inspector.
3. Click the **Background** color swatch to open the Color Picker.
4. Specify a background color. The Plazmic® Theme Builder automatically applies a white border with a width of one pixel.

Specify the icons used on dialog boxes

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Dialog** section of the Controls Inspector.
3. For each dialog box icon, click the icon, and then navigate to the image to use.

Specify fonts for dialog box buttons

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Buttons** section of the Controls Inspector.
3. In the **Font** drop-down list, click the font family to use for the text on dialog box buttons.
4. Specify text settings.
5. In the **Highlight Font** drop-down list, click the font family to use when dialog box buttons are selected.
6. Repeat Step 4 to specify the text settings to use when dialog box buttons are selected.

Customizing menus

Show or hide the menu preview

1. Click the **Controls** button at the left of the Inspector pane.
2. At the top of the Controls Inspector, click **Show Menu**.

Specify fonts for menu items

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Menu** section of the Controls Inspector.
3. In the **Font** drop-down list, click the font family to use for the text in menus.
4. Specify text settings.
5. In the **Highlight Font** drop-down list, click the font family to use when menu items are selected.
6. Repeat Step 4 to specify the text settings to use when menu items are selected.

Specify a tiled image as the background for menus

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Menu** section of the Controls Inspector.

3. Click the **Background** thumbnail image.
4. Navigate to the image to use as the background for application menus.
5. To specify the tile and border portions of the image, click the **Tile Image** button.
6. To specify the limits of the central pattern tile, in the **Tile Image** dialog box, drag each of the border guides the appropriate distance, or manually specify the thickness for the left, right, top, and bottom borders, in pixels, in the appropriate fields.

Specify a solid color as the background for menus

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Menu** section of the Controls Inspector.
3. Click the **Background** color swatch to open the Color Picker.
4. Select a background color. The Plazmic® Theme Builder applies a white border with a width of one pixel.

Specify the color of the cursor to underlay a selected menu item

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Menu** section of the Controls Inspector.
3. Click the **Cursor** color swatch to open the Color Picker.
4. Select a color for the menu cursor.

Customizing title bars

Show or hide the title bar preview

1. Click the **Controls** button at the left of the Inspector pane.
2. At the top of the Controls Inspector, click **Show titlebars**.

Specify the title bar font

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Titlebar** section of the Controls Inspector.
3. In the **Font** drop-down list, click the font family to use for the text in application title bars.
4. Specify text settings.

Specify a tiled image as the background for title bars

1. Click the **Controls** button at the left of the Inspector pane.

2.   Open the **Titlebar** section of the Controls Inspector.

3.   Click the **Background** thumbnail image.

4.   Navigate to the image to use as the background for title bars.

5.   To specify the tile and border portions of the image, click the **Tile Image** button.

6.   To specify the limits of the central pattern tile, in the **Tile Image** dialog box, drag each of the border guides the appropriate
      distance, or manually specify the thickness for the left, right, top, and bottom borders, in pixels, in the appropriate fields.

Specify a solid color as the background for title bars

1.   Click the **Controls** button at the left of the Inspector pane.

2.   Open the **Titlebar** section of the Controls Inspector.

3.   Click the **Background** color swatch to open the Color Picker.

4.   Select a background color. The Plazmic® Theme Builder applies a white border with a width of one pixel.

Specify the color for the cursor in the title bar

1.   Click the **Controls** button at the left of the Inspector pane.

2.   Open the **Titlebar** section of the Controls Inspector.

3.   Click the **Cursor** color swatch to open the Color Picker.

4.   Select a color for the cursor.

Customizing application lists

Specify fonts for application lists

1.   Click the **Controls** button at the left of the Inspector pane.

2.   Open the **List** section of the Controls Inspector.

3.   In the **Font** drop-down list, click the font family to use for the text in application lists.

4.   Specify text settings.

Specify the text color for a selected list item

1.   Click the **Controls** button at the left of the Inspector pane.

2.   Open the **List** section of the Controls Inspector.

3.   Click the **Highlight Font** color swatch to open the Color Picker.

4.   Select a text color.

Specify the color that displays underneath the selected list item

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **List** section of the Controls Inspector.
3. Click the **Cursor** color swatch to open the Color Picker.
4. Select the color that displays underneath the selected item in a list.

Specify the color that displays underneath multiple selected list items

1. Click the **Controls** button at the left of the Inspector pane.
2. Open the **Lists** section of the Controls Inspector.
3. Click the **Multi-select** color swatch to open the Color Picker.
4. Select the color that displays underneath a group of selected items in a list.

Customizing global UI elements and icons

You can use the Global Items Inspector to change the UI elements used across all BlackBerry® Applications.

Specify images for the radio activity indicators

1. Click the Global Items button at the left of the Inspector pane.
2. Open the **Transmission** section of the Global Items Inspector.
3. Click one of the thumbnail images.
4. Navigate to the image to use for the indicator.

Specify images for key modifiers

Key modifiers indicate that a particular button, such as Alt or Caps Lock, has been pressed on the device. You can change the image used for each of the key modifiers on a BlackBerry® device.

1. Click the **Global items** button at the left of the Inspector pane.
2. In the **Key Modifiers** section, click a thumbnail image.
3. Navigate to the image to use for the key modifier.

Specify images for the up and down navigation icons

1. Click the **Global Items** button at the left of the Inspector pane.
2. Open the **Navigation** section of the Global Items Inspector.

3. Click the **Up** or **Down** thumbnail images.
4. Navigate to the image to use for the selected navigation.

Specify an hourglass image

1. Click the **Global Items** button at the left of the Inspector pane.
2. Open the **Cursor** section of the Global Items Inspector.
3. Click the **Hourglass** thumbnail images.
4. Navigate to the image to use for the hourglass image.

Specify progress bar colors

1. Click the **Global Items** button at the left of the Inspector pane.
2. Open the **Progress Bar** section of the Global Items Inspector.
3. Click any of the color swatches to open the Color Picker.
4. Select a color for the progress bar.

Specify the default color for application backgrounds

Any changes to fonts or colors in application lists will override global settings for lists.

1. Click the **Global Items** button at the left of the Inspector pane.
2. Open the **Application** section of the Globals Inspector.
3. Click the **Background** color swatch to open the Color Picker.
4. Select a color to use as the standard background for BlackBerry® Applications.

Managing theme images and colors   10

You can use the Plazmic® Theme Builder catalogs to save images and colors for later use. Adding items to the Catalog panel creates a collection of resources that you can access at any time.

For example, if you want to create themes that are consistent in appearance across multiple BlackBerry® devices and you want to use similar background images and colors, create the first theme, then drag resources from that theme into a catalog. When you create a theme for a different BlackBerry device, you can select an item from the catalog and drag it to the appropriate location in the Inspector.

The Plazmic Theme Builder has the following default catalogs:

- **Tiled Images:** stores images along with their border and tiling definitions
- **Images:** stores static images
- **Colors:** stores predefined colors
- Scaled images for various screen sizes
- Sample banner meters, hour glasses and volume meters

You can create additional catalogs and specify the types of items they can store.

Create a catalog

1. Click the **Catalog options** icon, then click **New**.
2. In the **Catalog Name** field, type a unique name for the catalog.
3. Select the types of items that you can add to the catalog. Select any combination of tiled images, images, and colors, or select **All** to permit all three.

Add items to a catalog

If you try to drag an item to a catalog that does not permit the selected type, the Plazmic® Theme Builder automatically adds the item to the appropriate default catalog.

1. In the Plazmic Theme Builder Inspector, click any color swatch or thumbnail image.
2. Drag the item to the catalog.

Reuse resources from a catalog

Drag the item from the catalog to the appropriate color swatch or thumbnail image in the Plazmic® Theme Builder Inspector.

Delete items from a catalog

1.   Select the item you want to delete.
2.   Click the **Delete** icon.

Open a catalog

In the **Catalog** drop-down list, click a catalog.

Edit a catalog

1.   Click the **Catalog options** icon.
2.   Click **Edit**.
3.   Change the types of items that you can add to the catalog.

Delete a catalog

1.   Click the **Catalog options** icon.
2.   Click **Delete**.

Best practice: Controlling resource size

Controlling resource size is important when you create content for BlackBerry® devices. Keep the size of your theme file as small as possible to minimize the effects on the performance of the device.

To create images that are optimized for use on BlackBerry devices, consider the following guidelines:

*   **Create images as .png files:** Images on the BlackBerry device must be in .png format. During the export process, the Plazmic® Theme Builder converts all images that are not already .png files into 32-bit dithered .png files; this conversion process, however, can add to the size of the resulting file. For best results, create images as 32-bit dithered .png files, so that the Plazmic Theme Builder does not need to convert them.
*   **Create images that are the optimal size:** Where necessary, the Plazmic Theme Builder scales an image that is too large or too small, and then anti-aliases the resulting image to attain the best possible appearance; however, anti-aliasing an image significantly increases its file size.

For best results, when you create images for BlackBerry themes, design the image at the required height and width, whenever possible. The following table lists the optimal height and width for the theme-related images of the BlackBerry UI:

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® 7100 Series, BlackBerry® Pearl™ 8100 Series	BlackBerry® Curve™ 8300 Series, BlackBerry® 8700 Series, BlackBerry® 8800 Series
Banner	background image	260 x 65	320 x 50
	new item indicator image	14 x 14	14 x 14
	focus icon image	48 x 36	48 x 36
	battery meter image	variable (multistate image)	variable (multistate image)
	signal meter image	variable (multistate image)	variable (multistate image)
Home screen (Icon theme)	background, overlay mask images	240 x 260	320 x 240
	icons, focus icon images	60 x 55	53 x 48
	new item indicator image	48 x 36	48 x 36
Home screen (Zen theme)	background, overlay mask images	240 x 260	320 x 240
	tab, tab focus images	56 x 38	56 x 38
	new item indicator image, application menu image, application icon images	48 x 36	48 x 36
Home screen (Today theme)	background, overlay mask images	240 x 260	320 x 240
	caret image	240 x 28	320 x 28
	new item indicator image	48 x 36	48 x 36
	application menu image	32 x 24	32 x 24
	application icon images	48 x 36	48 x 36
Controls	dialog box icons	39 x 41	39 x 41
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)	variable (pattern tile image)
Message list	background	variable (pattern tile image)	variable (pattern tile image)
Phone	phone receiver images	variable (multistate image)	variable (multistate image)

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® 7100 Series, BlackBerry® Pearl™ 8100 Series	BlackBerry® Curve™ 8300 Series, BlackBerry® 8700 Series, BlackBerry® 8800 Series
	volume control images	variable (multistate image)	variable (multistate image)
	incoming call background	variable (pattern tile image)	variable (pattern tile image)
Lock screen	background	240 x 260	320 x 240
Global images	transmission arrows	26 x 15	26 x 15
	alt	23 x 17	23 x 17
	num lock, caps lock	32 x 20	32 x 20
	multi-tap	40 x 25	40 x 25
	navigation arrows	16 x 9	16 x 9
	hourglass cursor	32 x 32	36 x 36

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® Pearl™ 8220 smartphone	BlackBerry® Bold™ 9000 smartphone
Banner	background image	240 x 55	480 x 48
	new item indicator image	16 x 16	21 x 21
	focus icon image	46 x 46	60 x 60
	battery meter image	variable (multistate image)	variable (multistate image)
	signal meter image	variable (multistate image)	variable (multistate image)
Home screen (Zen theme)	background, overlay mask images	240 x 320	480 x 320
	tab, tab focus images	46 x 46	80 x 80
	new item indicator image	49 x 49	80 x 80
	application menu image, application icon images	46 x 46	80 x 80
Controls	dialog box icons	40 x 40	60 x 60

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® Pearl™ 8220 smartphone	BlackBerry® Bold™ 9000 smartphone
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)	variable (pattern tile image)
Message list	background	variable (pattern tile image)	variable (pattern tile image)
Phone	phone receiver images	variable (multistate image)	variable (multistate image)
	volume control images	variable (multistate image)	variable (multistate image)
	incoming call background	variable (pattern tile image)	variable (pattern tile image)
Lock screen	background	240 x 320	480 x 320
Global images	transmission arrows	22 x 22	22 x 22
	alt, num lock, caps lock	30 x 30	30 x 30
	multi-tap	30 x 30	32 x 30
	navigation arrows	16 x 11	16 x 11
	hourglass cursor	28 x 28	28 x 28

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® Curve™ 8900 smartphone	BlackBerry® Storm™ 9500 smartphone
Banner	background image	480 x 48	360 x 48
	new item indicator image	21 x 21	21 x 21
	focus icon image	60 x 60	48 x 48
	battery meter image	variable (multistate image)	variable (multistate image)
	signal meter image	variable (multistate image)	variable (multistate image)
Home screen (Zen theme)	background, overlay mask images	480 x 360	360 x 480
	tab, tab focus images	80 x 80	90 x 96
	new item indicator image	80 x 80	73 x 73
	application menu image, application icon images	80 x 80	73 x 73
Controls	dialog box icons	60 x 60	60 x 60

Inspector	Component element	Standard size (in pixels)	
		BlackBerry® Curve™ 8900 smartphone	**BlackBerry® Storm™ 9500 smartphone**
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)	variable (pattern tile image)
Message list	background	variable (pattern tile image)	variable (pattern tile image)
Phone	phone receiver images	variable (multistate image)	variable (multistate image)
	volume control images	variable (multistate image)	variable (multistate image)
	incoming call background	variable (pattern tile image)	variable (pattern tile image)
Lock screen	background	480 x 360	360 x 480
Global images	transmission arrows	22 x 22	22 x 22
	alt, num lock, caps lock	30 x 30	30 x 30
	multi-tap	32 x 30	32 x 30
	navigation arrows	16 x 11	16 x 11
	hourglass cursor	28 x 28	28 x 28

Inspector	Component element	Standard size (in pixels)
		BlackBerry® Curve™ 8350i
Banner	background image	320 x 36
	focus icon image	36 x 36
	battery meter image	variable (multistate image)
	alarm icon	9 x 8
	new item indicator image	14 x 14
	signal meter image	variable (multistate image)
	wi-fi signal meter	variable (multistate image)
	unread icons	variable (multistate image)
Home screen (Zen theme)	background, overlay mask images	320 x 240
	tab, tab focus images	52 x 52
	new item indicator image	52 x 52
	underlay image	52 x 52
	move icon	52 x 52

Inspector	Component element	Standard size (in pixels)
		BlackBerry® Curve™ 8350i
Controls	dialog box icons	40 x 40
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
	icons	variable (multistate image)
	web icons	variable (multistate image)
Phone	phone receiver images	variable (multistate image)
	volume control images	variable (multistate image)
	incoming call background	320 x 240
	active call background	320 x 240
Lock screen	background	320 x 240
	lock icon	52 x 52
Global images	transmission arrows	22 x 22
	alt, num lock, caps lock, multi-tap	21 x 20
	navigation arrows	10 x 7
	hourglass cursor	19 x 19

The Plazmic Theme Reader scales pattern tile images to the size of the control in the BlackBerry device interface.

Best practice: Creating effective resources

In the BlackBerry® device UI, images are often layered upon one another. For example, the Home screen icons overlay a background image, and the application menus and dialog boxes overlay the application backgrounds. You should consider how images interact with one another in the UI so that they do not hinder the BlackBerry device user's ability to navigate around the UI and use the device.

- **Limit the number of colors on a screen**: Too many colors on a screen can result in visual overload for a user, or negatively affect a user's ability to read text or identify icons, and can hinder navigation.
  - Background images should be fairly uniform in color and patterns should be subtle so that they do not overpower the text on controls such as menus, buttons, or dialog boxes.
  - On the Home screen, the background should not detract from the icons and text. Limit the use of bolder colors to the icon and text elements, and make sure that the background has a lower color saturation.
- **Use complementing colors:** A simple color palette that contains colors that complement each other enhances the users ability to read and navigate the BlackBerry UI.

- **Define borders for control elements**: Borders around control elements separate them from the screen content that they overlay.

Using the BlackBerry Smartphone Simulator to test your theme   11

You can test your theme using the BlackBerry® Smartphone Simulator , which enables you to simulate the functionality of the BlackBerry device under a range of conditions.

The Plazmic® Content Developer's Kit does not include the BlackBerry Smartphone Simulator as part of the installation. You must install the BlackBerry Smartphone Simulator separately. You can download and install simulators for each BlackBerry smartphone available for a specified version of the BlackBerry Device Software for free.

The Plazmic Theme Builder only supports BlackBerry Smartphone Simulators running BlackBerry Device Software version 4.2.2 or later. You cannot use earlier BlackBerry Smartphone Simulators to simulate Plazmic Theme Builder themes.

Download and install the BlackBerry Smartphone Simulator

1. In your browser, visit http://www.blackberry.com/developers/downloads.
2. Follow the directions to download and install one or more BlackBerry® Smartphone Simulators. You can only install one BlackBerry Smartphone Simulator at a time.
3. Once you install one or more BlackBerry Smartphone Simulators, you can specify the model and version of the BlackBerry Device Software to simulate when testing your theme.

Configure the BlackBerry Smartphone Simulator

Before you use the BlackBerry® Smartphone Simulator to test your theme, you must specify the resolution, model, and version of the BlackBerry Device Software to simulate.

1. Click **Edit** --> **Preferences**.
2. Click the **Simulator** tab.
3. For each screen resolution, specify the following values:
    a. Specify the resolution to simulate.
    b. Specify the BlackBerry device to simulate. The Plazmic® Theme Builder populates this drop down list based on the BlackBerry Smartphone Simulators that are installed on your computer and the resolution you select.
    c. Specify the version of the BlackBerry Device Software on the selected BlackBerry Smartphone Simulator .

View the theme in the BlackBerry Smartphone Simulator

Once you specify the BlackBerry® smartphone and the version of the BlackBerry Device Software to simulate, you can open your theme in the BlackBerry Smartphone Simulator to test how it appears.

1. Click the **Simulator** button on the tool bar.

2. When the BlackBerry Smartphone Simulator opens and displays your theme, navigate through the UI to verify that images, colors and fonts appear as expected.

Making themes available to BlackBerry device users   12

Export considerations

When you export a theme, the Plazmic® Theme Builder automatically places the theme in a .cod file that the BlackBerry® device can read.The Plazmic Theme Reader is a standard component of BlackBerry Device Software version 4.2 or later.

When you export your theme, consider the following factors that determine the export settings:

Export factor	Description
Target BlackBerry device	What BlackBerry device(s) do your users have?
	Different BlackBerry devices—even those with the same screen size—have slight differences in functionality and UI design. You must specify the BlackBerry device to target.
	For example, both the BlackBerry 7100 Series smartphones and the BlackBerry Pearl 8100 Series smartphones have a screen size of 240x260 pixels; however, the BlackBerry Pearl 8100 Series smartphones use a trackball instead of a trackwheel. Using the trackball, a user can access the Profiles application in the Banner, which is not possible on a device with a trackwheel.
Target BlackBerry Device Software version	What version(s) of the BlackBerry Device Software are your users running?
	Plazmic Theme Builder version 4.7 can export themes to devices running BlackBerry Device Software version 4.2.0 or later. You must specify the version the Plazmic Theme Builder should export to. If you customize an element that is not supported by the specified version of the BlackBerry Device Software , the Plazmic Theme Builder does not include that element in the exported theme.
Distribution strategy	How do you intend to distribute the theme to users?

Export factor	Description
	The distribution strategy you choose determines the type of file the Plazmic Theme Builder creates during the export process to accompany the resulting .cod file.
	There are two distribution strategies.
	• A user can copy the theme to their computer and then add it to a connected BlackBerry device. This strategy requires an Application Loader XML (.alx) file.
	• A user can download the theme over the wireless network, directly to a BlackBerry device. This strategy requires a BlackBerry Java® Application Descriptor (.jad) file.

You can target only one combination of the BlackBerry device, the version of the BlackBerry Device Software , and the distribution strategy at a time when you export a theme. If you need to target more than one combination of these export factors, you must repeat the export process for each combination. If you export a theme, and then re-export the theme to the same directory using the same export name, the Plazmic Theme Builder removes the original files (.cod, .alx, and .jad) and then regenerates the files.

If you want to make a theme available for multiple combinations of export factors you must export the theme to a separate directory for each combination.

Exporting a theme

Export types

Export type	Description
Application Loader XML (.alx) file	Enables users to add the theme onto their BlackBerry® devices using the application loader tool of the BlackBerry® Desktop Manager. The BlackBerry device must be connected to a computer to add the theme.
BlackBerry Java Application Descriptor (.jad) file	Enables users to download the theme from a web site to their BlackBerry devices over the wireless network.

Export type	Description
	When you export a theme for distribution over the wireless network, if the theme is too large for a single .cod file, the Plazmic Theme Builder might produce multiple .cod files and serialize them (for example, com_plazmic_theme_myTheme.cod, com_plazmic_theme_myTheme-1.cod, and so on).

Export a theme

1.   On the **File** menu, click **Export**.
2.   Based on your distribution strategy, select either **ALX** or **JAD**.
3.   In the **Theme Name** field, type the name for the theme.

     Upon export, the Plazmic® Theme Builder appends the com_plazmic_theme_ prefix to the .cod and .jad filenames. For example, if you name your theme myTheme, the Plazmic Theme Builder produces a file named com_plazmic_theme_myTheme.cod.
4.   In the **Path** field, specify the location in which to store the theme .cod file and the associated .jad or .alx files.
5.   In the **Handheld** drop-down list, click the target device.
6.   In the **Target OS** drop-down list, click the version of the BlackBerry® Device Software for which you are exporting the theme.
7.   To automatically overwrite any existing files, select **Overwrite existing files**.
8.   If you want to support the theme in languages other than English, select **Include international characters**. When you select this option, the Plazmic Theme Builder exports all of the international characters (accented characters and symbols) that are available for each font included in the theme.

     The Plazmic Theme Builder includes only the international characters that exist in the original font set. It does not export international character sets (such as Chinese, Arabic, Cyrillic). If a font set specified in the theme does not contain a particular character, the BlackBerry device uses a system font to display the character.

Making a theme available to BlackBerry device users

For BlackBerry® Device Software versions 4.2.0 and 4.2.1, you must instruct users who install your theme to manually restart their devices before they can activate the new theme. Themes loaded on BlackBerry Device Software version 4.2.2 and above are activated automatically without a restart.

Distribute a theme using the application loader

BlackBerry® device users can use the application loader tool of the BlackBerry Desktop Manager to select the .alx file and add the theme to their BlackBerry devices.

Distribute the .alx and .cod files to all BlackBerry device users who require the theme.

Distribute a theme over the wireless network

BlackBerry® device users can use the BlackBerry Browser to browse to your web page and select the .jad file to download the theme.

You must place all .jad files and .cod files in the same directory so that users can download all the necessary components to their BlackBerry devices.

Post the .jad and .cod files on a web server that is accessible to all BlackBerry device users who require the theme.

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